



SUBSTITUTE SPECIFICATION

DESCRIPTION

TREMINAL CONNECTION PART STRUCTURE OF ELECTRIC MOTOR WITH SPEED REDUCTION MECHANISM

Technical Field

[0001] The present invention relates to a terminal connection part structure of an electric motor with a speed reduction mechanism, which is used in an electric component of a car such as a wiper.

Background Art

[0002] Generally, such an electric motor having a speed reduction mechanism includes an electric motor and a speed reduction mechanism that decelerates rotational speed of the electric motor, as is disclosed in Jpn. Pat. Appln. Laid-Open Publication No. 8-275441. The speed reduction mechanism includes a case frame having housed therein a worm deceleration mechanism and a bearing for supporting a motor shaft, and a case cover that is attached to the case frame along the direction of the motor shaft. The case frame has a brush holder fixed thereto, in which a brush that slidably comes into contact with a commutator of the electric motor is housed. The brush holder is provided with brush side terminals to be electrically connected to the brush. On the other hand, the case cover is provided with power side terminals to be electrically connected to a lead wire for supplying power. These brush side terminals and power side terminals are arranged above the motor shaft. When the case cover is fixed to the case frame, these terminals are coupled to each other to electrically connect the power-supplying lead wire and the brush.

[0003] On the other hand, since the electric motor having a speed reduction mechanism has these terminals arranged above its motor shaft, the size above the motor shaft is increased by the size of these terminals, which undesirably increases the thickness of the